

REMARKS

Many of the newly presented claims are of narrower scope than some of the claims already contained in Applicants' issued Patent No. US 6,653,651 B1. Many of the new claims are similar to claims in the issued patent but are sufficiently differentiated from them to be permissible and allowable claims in this application. Others of the newly presented claims, and particularly new Claims 58 and 59, are of broader scope than claims in the issued patent but are believed to be patentable over the prior art of record.

It may be noted that a half-silvered mirror as referred to in new Claim 29 is described in the specification of the issued patent at column 8, lines 50 and 51.

An important feature of the invention is that the flowing fluid is broadly illuminated with carefully timed and spaced light pulses, is observed through an objective lens, and the depth of field of the objective lens produces well focused discrete images of discrete particles in a two-dimensional measurement plane. The comparison of successively observed discrete images as a function of time is then made in that measurement plane to determine the motion of the fluid body.